

Nucleotide Sequences pXP10 (SEQ ID No: 111)

1	GACGAAAGGG CCTCGTGATA CGCCTATTT TATAGGTTAA TGTCA	TGATA
	CTGCTTCCC GGAGCACTAT GCGGATAAAA ATATCCAATT ACAGTACTAT	
51	ATAATGGTTT CTTAGACGTC AGGTGGCACT TTTCGGGGAA ATGTGCGCG	
	TATTACCAAA GAATCTGCAG TCCACCGTGA AAAGCCCCCT TACACGCGCC	
101	AACCCCTATT TGTTTATTT TCTAAATACA TTCAAATATG TATCCGCTCA	
	TTGGGGATAA ACAAAATAAA AGATTATGT AAGTTTATAC ATAGGCGAGT	
151	TGAGACAATA ACCCTGATAA ATGCTTCAAT AATATTGAAA AAGGAAGAGT	
	ACTCTGTTAT TGGGACTATT TACGAAGTTA TTATAACTTT TTCCCTCTCA	
201	ATGAGTATTTC AACATTTCG TGTGCCCTT ATTCCCTTT TTGCGGCATT	
	TACTCATAAG TTGTAAGGC ACAGCGGGAA TAAGGGAAAA AACGCCGTAA	
251	TTGCCTTCCT GTTTTGCTC ACCCAGAAC GCTGGTGAAA GTAAAAGATG	
	AACGGAAGGA CAAAAACGAG TGGGTCTTG CGACCACTT CATTTCCTAC	
301	CTGAAGATCA GTTGGGTGCT CGAGTGGGTT ACATCGAACT GGATCTCAAC	
	GACTTCTAGT CAACCCACGA GCTCACCAA TGTAAGCTGA CCTAGAGTTG	
351	AGCGGTAAAGA TCCTTGAGAG TTTTCGCCCC GAAGAACGTT TTCCAATGAT	
	TCGCCATTCT AGGAACCTCTC AAAAGCGGGG CTTCTTGCAA AAGGTTACTA	
401	GAGCACTTTT AAAGTTCTGC TATGTGGCGC GGTATTATCC CGTATTGACG	
	CTCGTAAAAA TTTCAAGACG ATACACCGCG CCATAATAGG GCATAACTGC	
451	CCGGGCAAGA GCAACTCGGT CGCCGCATAC ACTATTCTCA GAATGACTTG	
	GGCCCGTTCT CGTTGAGCCA GCGCGTATG TGATAAGAGT CTTACTGAAC	
501	GTTGAGTACT CACCAAGTCAC AGAAAAGCAT CTTACGGATG GCATGACAGT	
	CAACTCATGA GTGGTCAGTG TCTTTCGTA GAATGCCTAC CGTACTGTCA	
551	AAGAGAATTAA TGCAGTGCTG CCATAACCAT GAGTGATAAC ACTGCGGCCA	
	TTCTCTTAAT ACGTCACGAC GGTATTGGTA CTCACTATTG TGACGCCGGT	
601	ACTTACTTCT GACAACGATC GGAGGACCGA AGGAGCTAAC CGCTTTTTG	
	TGAATGAAGA CTGTTGCTAG CCTCTCTGGCT TCCTCGATTG GCGAAAAAAC	
651	CACAACATGG GGGATCATGT AACTCGCCTT GATCGTTGGG AACCGGAGCT	
	GTGTTGTACC CCCTAGTACA TTGAGCGGAA CTAGCAACCC TTGGCCTCGA	
701	GAATGAAGCC ATACCAAACG ACGAGCGTGA CACCACGATG CCTGTAGCAA	
	CTTACTTCGG TATGGTTTG TGCTCGCACT GTGGTGCTAC GGACATCGTT	
751	TGGCAACAAAC GTTGCACAACTATTAACG TGCAACTACT TACTCTAGCT	
	ACCGTTGTTG CAACCGCTT GATAATTGAC CGCTTGATGA ATGAGATCGA	
801	TCCC GGCAAC AATTAATAGA CTGGATGGAG GCGGATAAAAG TTGAGGACC	
	AGGGCCGTG TTAATTATCT GACCTACCTC CGCCTATTT AACGTCCTGG	
851	ACTTCTGCGC TCGGCCCTTC CGGCTGGCTG GTTTATTGCT GATAAAATCTG	
	TGAAGACGCG AGCCGGGAAG GCGGACCGAC CAAATAACGA CTATTTAGAC	
901	GAGCCGGTGA GCGTGGGTCT CGCGGTATCA TTGCAAGCACT GGGGCCAGAT	
	CTCGGCCACT CGCACCCAGA GCGCCATAGT AACGTCGTGA CCCGGTCTA	
951	GGTAAGCCCT CCCGTATCGT AGTTATCTAC ACGACGGGGA GTCAAGCAAC	
	CCATTCCGGGA GGGCATAGCA TCAATAGATG TGCTGCCCT CAGTCCGTTG	
1001	TATGGATGAA CGAAATAGAC AGATCGTGA GATAGGTGCC TCACTGATTA	
	ATACCTACTT GCTTTATCTG TCTAGCGACT CTATCCACGG AGTACTAAT	
1051	AGCATTGGTA ACTGTCAGAC CAAGTTTACT CATAATATACT TTAGATTGAT	
	TCGTAACCAT TGACAGTCG GTTCAAATGA GTATATATGA AATCTAACTA	
1101	TTAAAACCTTC ATTTTTAATT TAAAAGGATC TAGGTGAAGA TCCTTTTGAA	
	AATTTGAAG TAAAAATTAA ATTTTCCTAG ATCCACTTCT AGGAAAAAACT	
1151	TAATCTCATG ACCAAAATCC CTTAACGTGA GTTTCGTTC CACTGAGCGT	
	ATTAGAGTAC TGGTTTAGG GAATTGCAC TAAAAGCAAG GTGACTCGCA	
1201	CAGACCCCGT AGAAAAGATC AAAGGATCTT CTTGAGATCC TTTTTTCTG	
	GTCTGGGGCA TCTTTCTAG TTTCTAGAA GAACTCTAGG AAAAAAAAGAC	
1251	CGCGTAATCT GCTGCTTGC AAAAAAAA CCACCGCTAC CAGCGGTGGT	
	GCGCATTAGA CGACGAACGT TTGTTTTTT GGTGGCGATG GTGCCACCA	
1301	TTGTTGCCG GATCAAGAGC TACCAACTCT TTTCCGAAG GTAAGTGGCT	
	AACAAACGGC CTAGTTCTCG ATGGTTGAGA AAAAGGCTTC CATTGACCGA	
1351	TCAGCAGAGC GCAGATACCA AATACTGTCC TTCTAGTGTAA GCCGTAGTTA	

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1401 AGTCGTCTCG CGTCTATGGT TTATGACAGG AAGATCACAT CGGCATCAAT
GGCCACCACT TCAAGAACCTC TGTAGCACCG CCTACATACC TCGCTCTGCT
CCGGTGGTGA AGTTCTTGAG ACATCGTGGC GGATGTATGG AGCGAGACGA
1451 AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG
TTAGGACAAT GGTCACCGAC GACGGTCACC GCTATTCAAG ACAGAATGGC
1501 GGTTGGACTC AAGACGATAG TTACCGGATA AGGCGCAGCG GTGGGGCTGA
CCAACCTGAG TTCTGCTATC AATGGCCTAT TCCGCGTCGC CAGCCCGACT
1551 ACGGGGGGTT CGTGCATACA GCCCAGCTT GAGCGAACGA CCTACACCGA
TGCCCCCAA GCACGTATGT CGGGTCGAAC CTCGCTTGCT GGATGTGGCT
1601 ACTGAGATAC CTACAGCGTG AGCTATGAGA AAGCGCCACG CTTCCGAAG
TGACTCTATG GATGTCGCAC TCGATACTCT TTGCGGGTGC GAAGGGCTTC
1651 GGAGAAAGGC GGACAGGTAT CGGGTAAGCG GCAGGGTCGG AACAGGAGAG
CCTCTTCCG CCTGTCCATA GCCCATTTCGC CGTCCCAGCC TTGTCCTCTC
1701 CGCACGAGGG AGCTTCCAGG GGGAAACGCC TGTTATCTT ATAGTCCTGT
GCGTGCTCCC TCGAAGGTCC CCCTTGCAG ACCATAGAAA TATCAGGACA
1751 CGGGTTTCGC CACCTCTGAC TTGAGCGTCG ATTTTGTGA TGCTCGTCAG
GCCCAAAGCG GTGGAGACTG AACTCGCAGC TAAAAACACT ACGAGCAGTC
1801 GGGGGCGGAG CCTATGGAAA AACGCCAGCA ACAGCGCCCTT TTACGGTTC
CCCCCGCCTC GGATACCTTT TTGCGGTGTT TGCGCCGGAA AAATGCCAAG
1851 CTGGCCTTT GCTGGCCTT TGCTCACATG TTCTTCCTG CGTTATCCCC
GACCGAAAAA CGACCGGAAA ACGAGTGTAC AAGAAAGGAC GCAATAGGGG
1901 TGATTCTGTG GATAACCGTA TTACCGCCTT TGAGTGAGCT GATAACGCTC
ACTAAGACAC CTATTGGCAT AATGGCGGA ACTCACTCGA CTATGGCGAG
1951 GCCGCAGCCG AACGACCGAG CGCAGCGAGT CAGTGAGCGA GGAAGCGGAA
CGGCGTCGGC TTGCTGGCTC GCGTCGCTCA GTCACTCGCT CCTTCGCCTT
2001 GAGCGCCCAA TACGCAAACC GCCTCTCCCC GCGCGTTGGC CGATTCTTA
CTCGCGGGTT ATGCGTTGG CGGAGAGGGG CGCGCAACCG GCTAAGTAAT
2051 ATGCAGCTGG CACGACAGGT TTCCCGACTG GAAAGCGGGC AGTGAGCGCA
TACGTCGACC GTGCTGTCCA AAGGGCTGAC CTTTCGCCCG TCACTCGCGT
2101 ACGCAATTAA TGTGAGTTAG CTCACTCATT AGGCACCCCA GGCTTACAC
TGCCTTAATT ACACCTAAC GAGTGAGTAA TCCGTGGGT CCGAAATGTG
2151 TTTATGCTTC CGGCTCGTAT GTTGTGTGGA ATTGTGAGCG GATAACAATT
AAATACGAAG CGCGAGCATA CAACACACCT TAACACTCGC CTATTGTTAA
2201 TCACACAGGA AACAGCTATG ACCATGATTA CGCCAAGCTT TGGAGCCTT
AGTGTGTCTT TTGTCGATAC TGGTACTAAT GCGGTTCGAA ACCTCGGAAA
2251 TTTTGGAGA TTTCAACGT GAAAAAAATT TTATTCGAA TTCCCTTAGT
AAAAACCTCT AAAAGTGTCA CTTTTTAAT AATAAGCGTT AAGGAAATCA
2301 TGTTCTTTC TATGCGGCC AGCGGCCAT GGCCCAGGTC CAGTCGACAG
ACAAGGAAAG ATACGCCGGG TCGGGCGGTA CGGGTCCAG GTCACTGTC
2351 GTGGAGGCAGG TTCAGGCCGA GGTGGCTCTG GCGGTGGCGG AAGTGCAC
CACCTCCGCC AAGTCCGCT CCACCGAGAC CGCCACCGCC TTCACGTGAG
2401 ATCAAACGGC GGCGCGCAGGT GCGCCGGTGC CGTATCCGA TCCGCTGGAA
TAGTTGCCG CGGGCGTCCA CGCGGCCACG GCATAGGCCT AGGCACCTT
2451 CGCGTGCCTG CATAGGCTGG CGGCGGCTCT GGTGGTGGTT CTGGTGGCGG
GGCGCACGGC GTATCCGACC GCCGGCGAGA CCACCAACAA GACCACCGCC
2501 CTCTGAGGGT GGCAGCTCTG AGGGTGGCGG TTCTGAGGGT GGCGCTCTG
GAGACTCCCA CCGCCGAGAC TCCCACCGCC AAGACTCCCA CGGCCGAGAC
2551 AGGGTGGCGG TTCCGGTGGC GGCTCCGGTT CGGTGATTT TGATTATGAA
TCCCACCGCC AAGGCCACCG CCGAGGCCAA GGCCACTAAA ACTAATACTT
2601 AAAATGGCAA ACGCTAATAA GGGGGCTATG ACCGAAAATG CCGATGAAAAA
TTTACCGTT TGCAGTATT CCCCCGATAC TGGCTTTAC GGCTACTTTT
2651 CGCGCTACAG TCTGACGCTA AAGGCAAACCT TGATTCTGTC GCTACTGATT
GCGCGATGTC AGACTGCGAT TTCCGTTGA ACTAAGACAG CGATGACTAA
2701 ACGGTGCTGC TATCGATGGT TTCATTGGTG ACGTTCCGG CCTTGCTAAT
TGCCACGACG ATAGCTACCA AAGTAACCAC TGCAAAGGCC GGAACGATTA
2751 GGTAATGGTG CTACTGGTGA TTTGCTGGC TCTAATTCCC AAATGGCTCA
CCATTACAC GATGACCACT AAAACGACCG AGATTAAGGG TTTACCGAGT

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2801 AGTCGGTGAC GGTGATAATT CACCTTAAT GAATAATTG CGTCAATATT
2851 TCAGCCACTG CCACTATTAA GTGGAATTAA CTTATTAAAG GCAGTTATAA
2901 TACCTCTTT GCCTCAGTCG GTTGAATGTC GCCCTTATGT CTTGGCGCT
ATGGAAGAAA CGGAGTCAGC CAACTTACAG CGGGAATACA GAAACCGCGA
2951 GGTAAACCAT ATGAATTTC TATTGATTGT GACAAAATAA ACTTATTCCG
CCATTGGTA TACTTAAAG ATAACAAACA CTGTTTATT TGAATAAGGC
3001 TGGTGTCTTT GCGTTCTT TATATGTTGC CACCTTATG TATGTATTT
ACCACAGAAA CGCAAAGAAA ATATACAAACG GTGGAATAC ATACATAAAA
3051 CGACGTTGCA TAACATACTG CGTAATAAGG AGTCTTAATA AGAATTCACT
GCTGCAAACG ATTGTATGAC GCATTATTCC TCAGAATTAT TCTTAAGTGA
3101 GGCGCTCGTT TTACAACGTC GTGACTGGGA AAACCTGGC GTTACCCAAC
CCGGCAGCAA AATGTTGCAG CACTGACCCT TTTGGGACCG CAATGGGTTG
3151 TTAATCGCCT TGCAGCACAT CCCCCTTTCG CCAGCTGGCG TAATAGCGAA
AATTAGCGGA ACGTCGTGTA GGGGGAAAGC GGTGACCGC ATTATCGCTT
3201 GAGGCCCGCA CCGATCGCCC TTCCCAACAG TTGCGCAGCC TGAATGGCGA
CTCCGGCGT GGCTAGCGGG AAGGGTTGTC AACGCGTCGG ACTTACCGCT
3251 ATGGGCCCTG ATGCGGTATT TTCTCCTTAC GCATCTGTGC GGTATTCAC
TACCGGGAC TACGCCATAA AAGAGGAATG CGTAGACACG CCATAAAGTG
3301 ACCGCATACG TCAAAGCAAC CATAGTACGC GCCCTGTAGC GGCGCATTAA
TGGCGTATGC AGTTTCGTG GTATCATGCG CGGGACATCG CCGCGTAATT
3351 GCCCAGGCC CCGCTCCTT CGCTTCTTC CCTTCCTTC TCGCCACGTT
CGGGATCGGG GGCAGGAAA GCGAAAGAAG GGAAGGAAAG AGCGGTGCAA
3401 CGCCGGCTT CCCCCTCAAG CTCTAAATCG GGGGCTCCCT TTAGGGTTCC
GCGGCCGAAA GGGGCAGTTC GAGATTAGC CCCCAGGGGA AATCCCAAGG
3451 GATTTAGTGC TTTACGGCAC CTCGACCCCA AAAAACTTGA TTTGGGTGAT
CTAAATCACG AAATGCCGTG GAGCTGGGT TTTTGAATC AAACCCACTA
3501 GGTTCACGTA GTGGGCCATC GCCCTGATAG ACGGTTTTC GTCCTTGAC
CCAAGTGCAT CACCCGGTAG CGGGACTATC TGCCAAAAG CAGGAAACTG
3551 GTTCGAGTCC ACGTTCTTA ATAGTGGACT CTTGTTCCAA ACTGGAACAA
CAAGCTCAGG TGCAAGAAAT TATCACCTGA GAACAAGGTT TGACCTTGTT
3601 TACTCAACCC TATCTCGGGC TATTCTTTG ATTTATAAGG GATTTGCGC
ATGAGTTGGG ATAGAGCCCG ATAAGAAAAC TAAATATTCC CTAAAACGGC
3651 ATTTCGGCCT ATTGGTTAAA AAATGAGCTG ATTTAACAAA ATTTAACGC
TAAAGCCGGA TAACCAATT TTTACTCGAC TAAATTGTT TAAATTGCG
3701 GAATTTAAC AAAATATTAA CGTTACAAT TTTATGGTGC AGTCTCAGTA
CTTAAAATTG TTTATAATT GCAAATGTT AAATACCACG TCAGAGTCAT
3751 CAATCTGCTC TGATGCCGCA TAGTTAAGCC AGCCCCGACA CCCGCCAAC
GTTAGACGAG ACTACGGCGT ATCAATTGCG TCAGGGCTGT GGGCGGTTGT
3801 CCCGCTGACG CGCCCTGACG GGCTTGTCTG CTCGGCGCAT CCGCTTACAG
GGGCGACTGC GCGGGACTGC CGGAACAGAC GAGGGCCGTA GGCGAATGTC
3851 ACAAGCTGTG ACCGTCTCCG GGAGCTGCAT GTGTCAGAGG TTTTCACCGT
TGTTGACAC TGGCAGAGGC CCTCGACGTA CACAGTCTCC AAAAGTGGCA
3901 CATCACCGAA ACGCGCGA
GTAGTGGCTT TGCGCGCT

Fig. 7b

Nucleotide Sequences pXP14 (SEQ ID No: 112)

1	GACGAAAGGG	CCTCGTGATA	CGCCTATT	TATAGGTTAA	TGTCATGATA	
	CTGCTTCCC	GGAGCACTAT	GCGGATAAAA	ATATCCAATT	ACAGTACTAT	
51	ATAATGGTT	CTTAGACGTC	AGGTGGCACT	TTTCGGGAA	ATGTGCGCGG	
	TATTACCAAA	GAATCTGCAG	TCCACCGTGA	AAAGCCCCTT	TACACGCGCC	
101	AACCCTATT	TGTTTATT	TCTAAATACA	TTCAAATATG	TATCCGCTCA	
	TTGGGGATAA	ACAAATAAAA	AGATTATGT	AAGTTTATAC	ATAGGCAGT	
151	TGAGACAATA	ACCCTGATAA	ATGCTCAAT	AATATTGAAA	AAGGAAGAGT	
	ACTCTGTTAT	TGGGACTATT	TACGAAGTTA	TTATAACTTT	TTCCCTCTCA	
201	ATGAGTATT	AACATTCCG	TGTCGCCCTT	ATTCCCTTT	TTGCGGCATT	
	TACTCATAAG	TTGTAAAGGC	ACAGCGGGAA	TAAGGGAAAA	AACGCCGTAA	
251	TTGCCCTCCT	GT	TTTGCTC	ACCCAGAAAC	GCTGGTGAAA	GTAAAAGATG
	AACGGAAGGA	CAAAAACGAG	TGGGTCTTTG	CGACCAC	TTT	CATTTCTAC
301	CTGAAGATCA	GT	GGGTGCT	CGAGTGGGTT	ACATCGAACT	GGATCTCAAC
	GACTTCTAGT	CAACCCACGA	GCTCACCCAA	TGTAGCTGA	CCTAGAGTTG	
351	AGCGGTAAGA	TCCTTGAGAG	TTTCGCCCC	GAAGAACGTT	TTCCAATGAT	
	TCGCCATTCT	AGGAAC	CTC	AAAAGCGGGG	CTTCTGCAA	AAGGTTACTA
401	GAGCACTTT	AAAGTTCTGC	TATGTGGCGC	GGTATTATCC	CGTATTGACG	
	CTCGTAAAAA	TTTCAAGACG	ATACACCGCG	CCATAATAGG	GCATAACTGC	
451	CCGGGCAAGA	GCAACTCGGT	CGCCGCATAC	ACTATTCTCA	GAATGACTTG	
	GGCCCCTTCT	CGTTGAGCCA	GCGCGTATG	TGATAAGAGT	CTTACTGAAC	
501	GT	TGAGTACT	CACCA	GTAC	AGCATGACAGT	
	CAACTCATGA	GTGGTCAGTG	TCTTTCGTA	GAATGCCTAC	CGTACTGTCA	
551	AAGAGAATT	TGCAGTGCTG	CCATAACCAT	GAGTGATAAC	ACTGCGGCCA	
	TTCTCTTAAT	ACGTACGAC	GGTATTGGTA	CTCACTATTG	TGACGCCGGT	
601	ACTTACTTCT	GACAACGATC	GGAGGACCGA	AGGAGCTAAC	CGCTTTTG	
	TGAATGAAGA	CTGTTGCTAG	CCTCCTGGCT	TCCTCGATTG	GCGAAAAAAC	
651	CACAA	CATGG	GGGATCATGT	AACTCGCCTT	GATCGTTGGG	AACC GGAGCT
	GTGTTGTACC	CCCTAGTACA	TTGAGCGGAA	CTAGCAACCC	TTGGCCTCGA	
701	GAATGAAGCC	ATACCAAACG	ACGAGCGTGA	CACCACGATG	CCTGTAGCAA	
	CTTACTTCGG	TATGGTTTG	TGCTCGACT	GTGGTGTAC	GGACATCGTT	
751	TGGCAACAA	GT	TCGCAAA	CTATTAAC	TACTCTAGCT	
	ACCGTTGTTG	CAACCGT	TTG	CGA	ACTACT	
801	TCCC	GGCAAC	AATAATAGA	CTGGATGGAG	CGGGATAAAG	TTGCAGGACC
	AGGGCCGTG	TTAATTATCT	GACCTACCTC	CGCCTATT	AACGTCTGG	
851	ACTTCTGCGC	TCGGCCCTTC	CGGCTGGCTG	GT	TTATTGCT	GATAAATCTG
	TGAAGACGCG	AGCCGGGAAG	GCCGACCGAC	CAAATAACGA	CTATTAGAC	
901	GAGCCGGTGA	GC	GTGGGTCT	CGCGGTATCA	TTGCAGCACT	GGGGCCAGAT
	CTCGGCCACT	CGCACCCAGA	GCGCCATAGT	AA	CGTCGTGA	CCCCGGTCTA
951	GGTAAGCCCT	CCC	GTATCGT	AGTTATCTAC	ACGACGGGGA	GTCAGGCAAC
	CCATT	CGGGA	GGGCATAGCA	TCAATAGATG	TGCTGCC	CAGTCCGTTG
1001	TATGGATGAA	CGAA	ATAGAC	AGATCGTGA	GATAGGTGCC	TCACTGATTA
	ATACCTACTT	GCTT	TATCTG	TCTAGCGACT	CTATCCACGG	AGTGACTAAT
1051	AGCATTGGTA	ACTGTCAGAC	CAAGTTACT	CATATATACT	TTAGATTGAT	
	TCGTAACCAT	TGACAGTCTG	GT	TC	AAATGATGA	AATCTAACTA
1101	TTAAAACCTC	ATTTTAATT	TAAAAGGATC	TAGGTGAAGA	TCCTTTTG	
	AATTTGAAAG	TA	AAAATTAA	ATTTCTAG	ATCCACTTCT	AGGAAAAACT
1151	TAATCTCATG	ACCAAAATCC	CTAACGTGA	GT	TTCGTTC	CACTGAGCGT
	ATTAGAGTAC	TGGTTTAGG	GAATTGCACT	CAAAGCAAG	GTGACTCGCA	
1201	CAGACCCGT	AGAAAAGATC	AAAGGATCTT	CTTGAGATCC	TTTTTTCTG	
	GTCTGGGGCA	TCTTTCTAG	TTTCCTAGAA	GAAC	CTAGG	AAAAAAAGAC

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1251	CGCGTAATCT	GCTGCTTGCA	AACAAAAAAA	CCACCGCTAC	CAGCGGTGGT
	GCGCATTAGA	CGACGAACGT	TTGTTTTTT	GGTGGCGATG	GTCGCCACCA
1301	TTGTTTCCG	GATCAAGAGC	TACCAACTCT	TTTCCGAAG	GTAACTGGCT
	AACAAACGGC	CTAGTTCTCG	ATGGTTGAGA	AAAAGGCTTC	CATTGACCGA
1351	TCAGCAGAGC	GCAGATAACCA	AATACTGTCC	TTCTAGTGT	GCCGTAGTTA
	AGTCGTCTCG	CGTCTATGGT	TTATGACAGG	AAGATCACAT	CGGCATCAAT
1401	GGCCACCACT	TCAAGAACTC	TGTAGCACCG	CCTACATACC	TCGCTCTGCT
	CCGGTGGTGA	AGTTCTTGAG	ACATCGTGGC	GGATGTATGG	AGCGAGACGA
1451	AATCCTGTTA	CCAGTGGCTG	CTGCCAGTGG	CGATAAGTCG	TGTCTTACCG
	TTAGGACAAT	GGTCACCGAC	GACGGTCACC	GCTATTCA	ACAGAATGGC
1501	GGTTGGACTC	AAGACGATAG	TTACCGGATA	AGGCGCAGCG	GTCGGGCTGA
	CCAACCTGAG	TTCTGCTATC	AATGGCCTAT	TCCGCGTCGC	CAGCCCGACT
1551	ACGGGGGGTT	CGTGCATACA	GCCCAGCTTG	GAGCGAACGA	CCTACACCGA
	TGCCCCCCAA	GCACGTATGT	CGGGTCGAAC	CTCGCTTGCT	GGATGTGGCT
1601	ACTGAGATAC	CTACAGCGTG	AGCTATGAGA	AAGCGCCACG	CTTCCCGAAG
	TGACTCTATG	GATGTCGCAC	TCGATACTCT	TTCGCGGTGC	GAAGGGCTTC
1651	GGAGAAAGGC	GGACAGGTAT	CCGGTAAGCG	GCAGGGTCGG	AACAGGAGAG
	CCTCTTCCG	CCTGTCCATA	GGCCATTTCGC	CGTCCCAGCC	TTGTCCTCTC
1701	CGCACGAGGG	AGCTTCCAGG	GGGAAACGCC	TGGTATCTTT	ATAGTCCCTGT
	GCGTGCTCCC	TCGAAGGTCC	CCCTTGCGG	ACCATAGAAA	TATCAGGACA
1751	CGGGTTTCGC	CACCTCTGAC	TTGAGCGTCG	ATTTTGTA	TGCTCGTCAG
	GCCCAAAGCG	GTGGAGACTG	AACTCGCAGC	TAAAAACACT	ACGAGCAGTC
1801	GGGGGCGGAG	CCTATGGAAA	AACGCCAGCA	ACGCCGGCTT	TTTACGGTTC
	CCCCCGCCTC	GGATACCTTT	TTGCGGTGCG	TGCGCCGGAA	AAATGCCAAG
1851	CTGGCCTTTT	GCTGGCCTTT	TGCTCACATG	TTCTTCCCTG	CGTTATCCCC
	GACCGGAAAA	CGACCGGAAA	ACGAGTGTAC	AAGAAAGGAC	GCAATAGGGG
1901	TGATTCTGTG	GATAACCGTA	TTACCGCCTT	TGAGTGAGCT	GATACCGCTC
	ACTAAGACAC	CTATTGGCAT	AATGGCGGAA	ACTCACTCGA	CTATGGCGAG
1951	GCCGCAGCCG	AACGACCGAG	CGCAGCGAGT	CAGTGAGCGA	GGAAGCGGAA
	CGGCGTCGGC	TTGCTGGCTC	GGCTCGCTCA	GTCACTCGCT	CCTTCGCCTT
2001	GAGGCCCAA	TACGCAAACC	GCCTCTCCCC	GCGCGTTGGC	CGATTCA
	CTCGCGGGTT	ATGCGTTGG	CGGAGAGGGG	CGCGCAACCG	GCTAAGTAAT
2051	ATGCAGCTGG	CACGACAGGT	TTCCCGACTG	GAAAGCGGGC	AGTGAGCGCA
	TACGTCGACC	GTGCTGTCCA	AAGGGCTGAC	CTTCGCCCCG	TCACTCGCGT
2101	ACGCAATTAA	TGTGAGTTAG	CTCACTCATT	AGGCACCCCA	GGCTTACAC
	TGCGTTAATT	ACACTCAATC	GAGTGAGTAA	TCCGTGGGTT	CCGAAATGTG
2151	TTTATGCTTC	CGGCTCGTAT	GTTGTGTGGA	ATTGTGAGCG	GATAACAATT
	AAATACGAAG	GCCGAGCATA	CAACACACCT	TAACACTCGC	CTATTGTTAA
2201	TCACACAGGA	AACAGCTATG	ACCATGATTA	CGCCAAGCTT	GCATGCAAAT
	AGTGTGTCT	TTGTCGATAC	TGGTACTAAT	GGGGTTCGAA	CGTACGTTA
2251	TCTATTCAA	GGAGACAGTC	ATAATGAAAT	ACCTATTGCC	TACGGCAGCC
	AGATAAAAGTT	CCTCTGTCA	TATTACTTTA	TGGATAACGG	ATGCCGTGG
2301	GCTGGATTGT	TATTACTCGC	GGCCCAGCCG	GCCATGGCCC	AGGTGCAGCT
	CGACCTAACAA	ATAATGAGCG	CCGGGTCGGC	CGGTACCGGG	TCCACGTCGA
2351	GCAGGTGGC	CTCGAGATCA	AACGGGCGGC	CGCAGGTGCG	CCGGTGCCGT
	CGTCCAGCCG	GAGCTCTAGT	TTGCCCGCCG	CGTCCACGC	GGCCACGGCA
2401	ATCCAGATCC	GCTGGAACCG	CGTGGGGCCG	CAAGCGCTTG	GAGCCACCCG
	TAGGTCTAGG	CGACCTTGGC	GCACCCCGGC	GTTCGCGAAC	CTCGGTGGC
2451	CAGTCGAAA	AATAATAAGG	ATCCGAATT	ACTGGCCGTC	GTTTTACAAC
	GTCAAGCTT	TTATTATTCC	TAGGCTTAAG	TGACCGGGCAG	CAAATGTTG
2501	GTCGTGACTG	GGAAAACCT	GGCGTTACCC	AACTTAATCG	CCTTGCAGCA

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CAGCACTGAC CCTTTGGGA CCGCAATGGG TTGAATTAGC GGAACGTCGT
2551 CATCCCCCTT TCGCCAGCTG GCGTAATAGC GAAGAGGCC GCACCGATCG
GTAGGGGGAA AGCGGTCGAC CGCATTATCG CTTCTCCGGG CGTGGCTAGC
2601 CCCTTCCCAA CAGTTGCGCA GCCTGAATGG CGAATGGCGC CTGATGCGGT
GGGAAGGGTT GTCAACCGGT CGGACTTACC GCTTACCGCG GACTACGCCA
2651 ATTTTCTCCT TACGCATCTG TGCGGTATT CACACCGCAT ACGTCAAAGC
TAAAAGAGGA ATGCGTAGAC ACGCCATAAA GTGTGGCGTA TGCAGTTCG
2701 AACCATAGTA CGCGCCCTGT AGCGGCGCAT TAAGCCCAGG GGGTGTGGTG
TTGGTATCAT GCGCGGGACA TCGCCGCGTA ATTCCGGCCG CCCACACCAC
2751 GTTACGCGCA GCGTGACCGC TACACTTGCC AGCGCCCTAG CCCCCGCTCC
CAATGCGCGT CGCACTGGCG ATGTGAACGG TCGCGGGATC GGGGGCGAGG
2801 TTTCGCTTTC TTCCCTTCCT TTCTCGCCAC GTTCGCCGGC TTTCCCCGTC
AAAGCGAAAG AAGGGAAAGGA AAGAGCGGTG CAAGCGGCCG AAAGGGGCAG
2851 AAGCTCTAAA TCGGGGGCTC CCTTTAGGGT TCCGATTTAG TGCTTACGG
TTCGAGATT AGCCCCCGAG GGAAATCCA AGGCTAAATC ACGAAATGCC
2901 CACCTCGACC CCAAAAAACT TGATTTGGGT GATGGTTCAC GTAGTGGGCC
GTGGAGCTGG GTTTTTGA ACTAAACCCA CTACCAAGTG CATCACCCGG
2951 ATCGCCCTGA TAGACGGTTT TTCGTCCTT GACGTTCGAG TCCACGTTCT
TAGCGGGACT ATCTGCCAAA AAGCAGGAAA CTGCAAGCTC AGGTGCAAGA
3001 TTAATAGTGG ACTCTTGTTC CAAACTGGAA CAATACTCAA CCCTATCTCG
AATTATCACC TGAGAACAAAG GTTGACCTT GTTATGAGTT GGGATAGAGC
3051 GGCTATTCTT TTGATTATA AGGGATTTCG CCGATTTCGG CCTATTGGTT
CCGATAAGAA AACTAAATAT TCCCTAAAC GGCTAAAGCC GGATAACCAA
3101 AAAAAATGAG CTGATTTAAC AAAAATTAA CGCGAATTTC AACAAATAT
TTTTTACTC GACTAAATTG TTTTAAATT GCGCTTAAAA TTGTTTATA
3151 TAACGTTTAC AATTTATGG TGCAGTCTCA GTACAATCTG CTCTGATGCC
ATTGCAAATG TTAAAATACC ACGTCAGAGT CATGTTAGAC GAGACTACGG
3201 GCATAGTTAA GCCAGCCCCG ACACCCGCCA ACACCCGCTG ACGCGCCCTG
CGTATCAATT CGGTGGGGC TGTGGCGGT TGTGGCGAC TGCAGGGAC
3251 ACGGGCTTGT CTGCTCCGG CATCCGCTTA CAGACAAGCT GTGACCGTCT
TGCCCCAAC A GACGAGGGCC GTAGGCGAAT GTCTGTTCGA CACTGGCAGA
3301 CCGGGAGCTG CATGTGTCA AGGTTTCAC CGTCATCACC GAAACGCGCG
GGCCCTCGAC GTACACAGTC TCCAAAAGTG GCAGTAGTGG CTTTGCAGCGC
3351 A
T

Fig. 8b

cDNA primers

VLK-c	CTGGATGGTGGGAAGATGGA (SEQ ID No:113)
VLL-c	TCAGAGGAAGGAAACAGGGT (SEQ ID No:114)
IgG1-c	CTTACAACCACAATCCCTGGGCACAATTT (SEQ ID No:115)
IgG2a-c	CTTTGTGGGCCCTCTGGGCTCAAT (SEQ ID No:116)
IgG2b	TGAAATGGGCCGCTGGGCTCAAG (SEQ ID No:117)
IgG3-c	GGGCTTGGGTATTCTAGGCTCGAT (SEQ ID No:118)

VH forward primers without restriction sites

M-VH1	GAGGTGCAGCTCAGGAGTCAGG (SEQ ID No:119)
M-VH2	CAGGTGCAGCTGAAGGAGTCAGG (SEQ ID No:120)
M-VH3	GAGGTCCAGCTGCAACAGTCTGG (SEQ ID No:121)
M-VH4	GAGGTCAGCTGCAGCAGTCTGG (SEQ ID No:122)
M-VH5	CAGGTCCAAGTGCAGCAGCCTGG (SEQ ID No:123)
M-VH6	CAGGTTCACTGCAGCAGTCTGG (SEQ ID No:124)
M-VH7	GAGGTGAAGCTGGTGGAGTCTGG (SEQ ID No:125)
M-VH8	GAGGTGAAGCTGGTGGAAATCTGG (SEQ ID No:126)
M-VH9	GAGGTTCACTGCAGCAGTCTGG (SEQ ID No:127)

VH backward primers without restriction sites

M-JH1	TGAGGAGACGGTGACCGTGGTCCC (SEQ ID No:128)
M-JH2	TGAGGAGACTGTGAGAGTGGTGCC (SEQ ID No:129)
M-JH3	TGCAGAGACAGTGACCAGAGTCCC (SEQ ID No:130)
M-JH4	TGAGGAGACGGTGAUTGAGGTTCC (SEQ ID No:131)

VL forward primer without restriction sites

M-VK1	GACATTGTGATGACACAGTCTCC (SEQ ID No:132)
M-VK2	GATGTTGTGATGACCCAACTCC (SEQ ID No:133)
M-VK3	GATATCCAGATGACACAGACTCC (SEQ ID No:134)
M-VK4	CAAATTGTTCTCACCCAGTCTCC (SEQ ID No:135)
M-VL1	CAGGCTGTTGACTCAGGAATC (SEQ ID No:136)

VL backward primers without restriction sites

M-JK1	TTTGATTTCAGCTTGGTGCCTCC (SEQ ID No:137)
M-JK2	TTTTATTTCAGCTTGGTCCCCCC (SEQ ID No:138)
M-JK3	TTTCAGCTCCAGCTTGGTCCCAGC (SEQ ID No:139)
M-JL1	ACCTAGGACAGTGACCTTGGTCC (SEQ ID No:140)

VH forward primers with restriction sites

MVH1 Sfil	GTCCTCGCAACTGCAGCCAGCCGGCATGGCCGAGGTGCAGCTTCAGGAGTCAGG (SEQ ID No:141)
MVH2 Sfil	GTCCTCGCAACTGCAGCCGGCATGGCCGAGGTGCAGCTGAAGGAGTCAGG (SEQ ID No:142)
MVH3 Sfil	GTCCTCGCAACTGCAGCCGGCATGGCCGAGGTCCAGCTGCAACAGTCTGG (SEQ ID No:143)
MVH4 Sfil	GTCCTCGCAACTGCAGCCGGCATGGCCGAGGTTCAGCTGCAGCAGTCTGG (SEQ ID No:144)
MVH5 Sfil	GTCCTCGCAACTGCAGCCGGCATGGCCGAGGTCAAAGTCAGCAGCAGCTGG (SEQ ID No:145)
MVH6 Sfil	GTCCTCGCAACTGCAGCCGGCATGGCCGAGGTCAAAGCTGCAGCAGTCTGG (SEQ ID No:146)
MVH7 Sfil	GTCCTCGCAACTGCAGCCGGCATGGCCGAGGTGAAGCTGGTGGAGTCTGG (SEQ ID No:147)
MVH8 Sfil	GTCCTCGCAACTGCAGCCGGCATGGCCGAGGTGAAGCTGGTGGAAATCTGG (SEQ ID No:148)
MVH9 Sfil	GTCCTCGCAACTGCAGCCGGCATGGCCGAGGTCAAAGCTTCAGCAGTCTGG (SEQ ID No:149)

VH backward primers with restriction sites

MJH1 Sall	GAGTCATTCTCGTGTGACACGGTGACCGTGGTCCC (SEQ ID No:150)
MJH2 Sall	GAGTCATTCTCGTGTGACACTGTGAGAGTGGTGCC (SEQ ID No:151)
MJH3 Sall	GAGTCATTCTCGTGTGACACAGTGACCAAGACTCCC (SEQ ID No:152)
MJH4 Sall	GAGTCATTCTCGTGTGACACGGTGACTGAGGTTCC (SEQ ID No:153)

VL forward primers with restriction sites

MVK1 ApaL1	TGAGCACACAGTGCACTCGACATTGTGATGACACAGTCTCC (SEQ ID No:154)
MVK2 ApaL1	TGAGCACACAGTGCACTCGATGTTGTGATGACCCAAACTCC (SEQ ID No:155)
MVK3 ApaL1	TGAGCACACAGTGCACTCGATATCCAGATGACACAGACTCC (SEQ ID No:156)
MVK4 ApaL1	TGAGCACACAGTGCACTCGAAATTGTTCTACCCAGTCTCC (SEQ ID No:157)
MVL1 ApaL1	TGAGCACACAGTGCACTCGAGGCTGTTGACTCAGGAATC (SEQ ID No:158)

VL backward primers with restriction sites

M-JK1 Not1	GAGTCATTCTCGACTTGCAGCCGCTTGATTTCCAGCTTGGTGCCTCC (SEQ ID No:159)
M-JK2 Not1	GAGTCATTCTCGACTTGCAGCCGCTTTATTTCCAGCTTGGTCCCC (SEQ ID No:160)
M-JK3 Not1	GAGTCATTCTCGACTTGCAGCCGCTTCAGCTCCAGCTTGGTCCCAGC (SEQ ID No:161)
M-JL1 Not1	GAGTCATTCTCGACTTGCAGCCGACCTAGGACAGTGACCTTGGTCC (SEQ ID No:162)

Fig. 9